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- 21 [Brave new topics -- session 3: the effect of benchmarking on advances in semantic video: TRECVID: evaluating the effectiveness of information retrieval tasks on digital video](#) 


Alan F. Smeaton, Paul Over, Wessel Kraaij

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  [pdf\(74.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

TRECVID is an annual exercise which encourages research in information retrieval from digital video by providing a large video test collection, uniform scoring procedures, and a forum for organizations interested in comparing their results. TRECVID benchmarking covers both interactive and manual searching by end users, as well as the benchmarking of some supporting technologies including shot boundary detection, extraction of some semantic features, and the automatic segmentation of TV news b ...

- 22 [An experimental simulation of multi-site software development](#) 

N. Sadat Shami, Nathan Bos, Zach Wright, Susannah Hoch, Kam Yung Kuan, Judy Olson, Gary Olson

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(232.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective communication and coordination across multiple sites is extremely important for global software development. An experimental simulation that mimics an interdependent software division working across multiple locations was designed to study this phenomenon. Six experiments were run, each with participants divided into four or five sites depending on the availability of participants. We found that simulated workers at the same sites formed strong in-groups and were able to enlist help ...

- 23 [Analysis of lexical signatures for improving information persistence on the World Wide Web](#) 

Wide Web

Seung-Taek Park, David M. Pennock, C. Lee Giles, Robert Krovetz

October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(808.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A *lexical signature* (LS) consisting of several key words from a Web document is often sufficient information for finding the document later, even if its URL has changed. We conduct a large-scale empirical study of nine methods for generating lexical signatures, including Phelps and Wilensky's original proposal (PW), seven of our own static variations, and one new dynamic method. We examine their performance on the Web over a 10-month period, and on a TREC data set, evaluating t ...

Keywords: Broken URLs, TREC, World Wide Web, dead links, digital libraries, indexing, information retrieval, inverse document frequency, lexical signatures, robust hyperlinks, search engines, term frequency

24 Shield: vulnerability-driven network filters for preventing known vulnerability exploits



Helen J. Wang, Chuanxiong Guo, Daniel R. Simon, Alf Zugenmaier

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(242.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software patching has not been effective as a first-line defense against large-scale worm attacks, even when patches have long been available for their corresponding vulnerabilities. Generally, people have been reluctant to patch their systems immediately, because patches are perceived to be unreliable and disruptive to apply. To address this problem, we propose a first-line worm defense in the network stack, using *shields* -- vulnerability-specific, exploit-generic network filters install ...

Keywords: generic protocol analyzer, network filter, patching, vulnerability signature, worm defense

25 Participatory design in various community contexts: Artful infrastructuring in two cases of community PD



Helena Karasti, Anna-Liisa Syrjänen

July 2004 **Proceedings of the eighth conference on Participatory design: Artful integration: interweaving media, materials and practices - Volume 1**

Publisher: ACM Press

Full text available: pdf(254.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we use the notions of artful integrations and infrastructure to analyze two cases of community Participatory Design 'in the wild'. Though the communities are quite different on the outside, they bear surprising similarities when it comes to collaboration in technology design. We identify several features of how the community members artfully integrate their everyday materials, tools, methods and practices into collaborative processes of infrastructuring. The notions of 'artful int ...

Keywords: artful integrations, community design, dog breeding, ecology, information management, infrastructure, participatory design

26 Features: Security is Harder than You Think



John Viega, Matt Messier

July 2004 **Queue**, Volume 2 Issue 5

Publisher: ACM Press

Full text available: pdf(982.74 KB) html (19.45 KB) Additional Information: [full citation](#), [index terms](#)

27 Queue Focus: Network Forensics



Ben Laurie

June 2004 **Queue**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(495.59 KB) html(21.39 KB) Additional Information: [full citation](#), [index terms](#)

28 Security and privacy: Securing web application code by static analysis and runtime



protection

Yao-Wen Huang, Fang Yu, Christian Hang, Chung-Hung Tsai, Der-Tsai Lee, Sy-Yen Kuo
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(2.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Security remains a major roadblock to universal acceptance of the Web for many kinds of transactions, especially since the recent sharp increase in remotely exploitable vulnerabilities have been attributed to Web application bugs. Many verification tools are discovering previously unknown vulnerabilities in legacy C programs, raising hopes that the same success can be achieved with Web applications. In this paper, we describe a sound and holistic approach to ensuring Web application security. Vi ...

Keywords: information flow, noninterference, program security, security vulnerabilities, type systems, verification, web application security

29 Telemurals: linking remote spaces with social catalysts



Karrie Karahalios, Judith Donath

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(309.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Telemurals is an abstract audio-video installation that seeks to initiate and sustain interaction between and within two remote spaces. Our goal is to improve the social aspects of casual mediated communications by incorporating events into the design of the communication medium that encourage people to engage in interaction when they otherwise would not. We call these events social catalysts, for they encourage people to initiate and sustain interaction. In this paper we discuss the desi ...

Keywords: ethnography, mediated communication, mediated spaces, remote connections, social catalyst, social interaction, telepresence, video

30 Real-world PHP security

Xavier Spriet

April 2004 **Linux Journal**, Volume 2004 Issue 120

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(25.32 KB) Additional Information: [full citation](#), [abstract](#)

Learn the top four PHP security mistakes and the three key techniques you can use to secure your PHP app.

31 Paranoid penguin: seven top security tools

Mick Bauer

February 2004 **Linux Journal**, Volume 2004 Issue 118

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(19.18 KB) Additional Information: [full citation](#)

32 Using keyphrases as search result surrogates on small screen devices

Steve Jones, Matt Jones, Shaleen Deo_andA2

February 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 1

Publisher: Springer-Verlag

Full text available: pdf(675.87 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper investigates user interpretation of search result displays on small screen devices. Such devices present interesting design challenges given their limited display capabilities, particularly in relation to screen size. Our aim is to provide users with succinct yet useful representations of search results that allow rapid and accurate decisions to be made about the utility of result documents, yet minimize user actions (such as scrolling), the use of device resources, and the volume of ...

33 Video retrieval: Design, implementation and testing of an interactive video retrieval system



Georgina Gaughan, Alan F. Smeaton, Cathal Gurrin, Hyowon Lee, Kieran McDonald
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Publisher: ACM Press

Full text available: [pdf\(504.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present and discuss the system we developed for the search task of the TRECVID 2002, and its evaluation in an interactive search task. To do this we will look at the strategy we used in designing the system, and we discuss and evaluate the experiments used to determine the value and effectiveness of one system incorporating both feature evidence and transcript retrieval compared to a transcript-only retrieval system. Both systems tested are built on the foundation of the F&iacut ...

Keywords: interface design, system evaluation, usability testing, video analysis, video browsing, video retrieval

34 Intrusion detection: Anomaly detection of web-based attacks



Christopher Kruegel, Giovanni Vigna
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(252.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web-based vulnerabilities represent a substantial portion of the security exposures of computer networks. In order to detect known web-based attacks, misuse detection systems are equipped with a large number of signatures. Unfortunately, it is difficult to keep up with the daily disclosure of web-related vulnerabilities, and, in addition, vulnerabilities may be introduced by installation-specific web-based applications. Therefore, misuse detection systems should be complemented with anomaly detection ...

Keywords: anomaly detection, network security, world-wide web

35 ECSCW 2003 Computer Supported Scientific Collaboration (CSSC) workshop report



Helena Karasti, Karen S. Baker, Geoffrey C. Bowker
August 2003 **ACM SIGGROUP Bulletin**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: [pdf\(183.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The Eighth European Computer Supported Cooperative Work conference (ECSCW 2003) provided a venue to gather researchers interested in the study of scientific collaborations and their technology support. The organizers, Karen S. Baker, Geoffrey C. Bowker and Helena Karasti, started to work together in 2002 on a National Science Foundation funded BioDiversity and EcoInformatics (BDEI) project 'Designing an Infrastructure for Heterogeneity in Ecosystem Data, Collaborators and Organizations' <u ...

36 Data integrity: Web application security assessment by fault injection and behavior monitoring



Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(4.53 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large and complex application platform, the World Wide Web is capable of delivering

a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

37 Session: A common multi-platform hardware object model



Joe Armstrong, Astrid Kreissig

November 2002 **OOPSLA 2002 Practitioners Reports**

Publisher: ACM Press

Full text available: pdf(1.73 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

About 5 years ago one group in IBM's high-end server system started a redesign of its hardware access layer. Flexibility for any kind of configuration and hardware was the main goal for the design, to allow for rapid bring up changes and changing hardware packaging. Object-oriented design was the obvious choice. About 2 years ago another group in IBM's middle and low end server systems started a redesign of their hardware access layer. The same basic objectives as the high-end systems applied. Ad ...

Keywords: code reuse, object model

38 Programming PHP with security in mind

Nuno Loureiro

October 2002 **Linux Journal**, Volume 2002 Issue 102

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(15.73 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Can attackers subvert your web application? Not if you develop it with a healthy distrust of users.

39 Exploring collaborative navigation:: the effect of perspectives on group performance



Huahai Yang, Gary M. Olson

September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments**

Publisher: ACM Press

Full text available: pdf(136.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe a collaborative navigation task in CVE. As a work in process, we present a process model of the task and design an experiment to test hypotheses generated by this process model. Using this experimental approach, we investigated the effect of the dimension of egocentric-exocentric perspectives on collaborative navigation performance. Results favor an egocentric perspective display. We also discuss the implications of this work for the design of interaction techniques to ...

Keywords: CVE, awareness, egocentric-exocentric perspectives, mental model, navigation, user studies

40 Research papers: human-computer interaction, visualization and collaboration: Collaboratories to support distributed science: the example of international HIV/AIDS research

Gary M. Olson, Stephanie Teasley, Matthew J. Bietz, Derrick L. Cogburn

September 2002 **Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '02**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: pdf(169.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[terms](#)

The use of collaborative technologies to support geographically distributed scientific research (or collaboratories) is gaining wide acceptance in many parts of the developed world. Such collaboratories hold great promise for international cooperation in critical areas of scientific research, such as HIV/AIDS. We have extensive experience with the design, development, deployment and evaluation of such collaboratories in a number of areas of science and engineering. We have identified a number of ...

Keywords: HIV/AIDS, collaboration readiness, collaboratories, computer supported cooperative work, international collaboration

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